

Resilient and Dynamics of Digital Mind Mapping in Enhancing Vocational Learning among TVET students in Malaysian Public Higher Institutions

Ramlee Mustapha¹, Rafidah Abd Karim²

¹Sultan Idris Education University

²Universiti Teknologi MARA

Abstract

Digital Intelligence can be used to enhance learning. Visual aids have been transformed from traditional to digital tools. Besides being manually competent, majority of TVET (Technical and Vocational Education and Training) students are visual learners. Digital mind map is digital visual that is becoming increasingly popular tool in teaching and learning. In digital era, professionals and students are using digital mind map to create outline, improve understanding, take notes during meetings and plan projects. Today, in teaching and learning, digital tools are preferable by teachers and students rather than the traditional tools. Based on the mind mapping theory, the main variables in this study included (a) speed and efficiency, (b) appearance and mechanics, (c) ontology and concept mapping, and (d) creativity. Hence, this survey research aims to investigate the practice of digital mind map among vocational students in Malaysia. A random sample of 372 TVET students were selected from several public higher institutions in Malaysia. The online questionnaires were designed to measure the perception and the practice of digital mind map among TVET students. The data were collected and analyzed using descriptive and inferential statistics. The empirical results showed that the TVET students have positive perception toward the digital mind map. Thus, the digital mind map has a potential to stimulate learning of technical subjects among vocational students in Malaysia.

Keywords: Digital Mind Mapping; Malaysia; TVET; visual aids; vocational students